

## CLAIMS:

1. Method of embedding a secondary signal of a secondary channel in the bitstream of a primary signal of a primary channel, wherein the bitstream of the primary signal is distorted before outputting the bitstream of the primary signal such that the secondary signal is represented by a predetermined distortion.
2. Method according to claim 1, wherein local phase errors are inserted in the bitstream of the primary signal.
3. Method according to claim 2, wherein the absolute value of the phase error is chosen such that it is smaller than the channel clock period of the primary channel, preferably smaller than half of the channel clock period, preferably between 20% and 50% of the channel clock period.
4. Method according to claim 1, wherein low frequency variations are introduced into the channel clock of the primary channel.
5. Method according to claim 4, wherein the channel clock of the primary channel is modulated within the bandwidth of a phase locked loop circuit locked to the primary signal for synchronization, the channel clock preferably being modulated with a phase or frequency modulated sine wave.
6. Method according to claim 1, wherein the bitstream of the primary signal of the primary channel consists of a stream of bits for being recorded on a data carrier, in particular on an optical data carrier like a CD or a DVD, in the form of lands and marks.
7. Method according to claim 1, wherein the secondary signal comprises a copy protection key or a digital right.

8. Apparatus for embedding a secondary signal of a secondary channel in the bitstream of a primary signal of a primary channel, comprising:

distortion means for distorting the bitstream of the primary signal such that the secondary signal is represented by a predetermined distortion, and

output means for outputting the bitstream of the primary signal.

9. Apparatus according to claim 8, wherein the distortion means comprises

a buffer for buffering the bitstream of the primary signal and

an encoder for generating a distortion signal and modulating the buffered

bitstream of the primary signal before inputting it to the output means.

10. Apparatus for recording a primary signal of a primary channel on a record carrier comprising an apparatus for embedding a secondary signal of a secondary channel in the bitstream of a primary signal of a primary channel according to claim 8.

11. Method for detecting a secondary signal of a secondary channel embedded in the bitstream of a primary signal of a primary channel, the secondary signal being represented by a predetermined distortion of the bitstream of the primary signal, wherein the distortion of the bitstream is detected and wherein the secondary signal is decoded from the distortion.

12. Method according to claim 11, wherein the distortion is detected in a phase locked loop circuit.

13. Apparatus for detecting a secondary signal of a secondary channel embedded in the bitstream of a primary signal of a primary channel, the secondary signal being represented by a predetermined distortion of the bitstream of the primary signal, comprising detection means for detecting the distortion of the bitstream, and decoding means for decoding the secondary signal from the distortion.

14. Apparatus for replaying data stored on a record carrier comprising an apparatus for detecting a secondary signal of a secondary channel embedded in the bitstream of a primary signal of a primary channel according to claim 13.

15. Data carrier for storing a bitstream of a primary signal of a primary channel having embedded therein a secondary signal of a secondary channel, the bitstream of the primary signal being distorted before storing such that the secondary signal is represented by a predetermined distortion.

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